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(54) METHOD FOR ADJUSTING IMAGE QUALITY OF FLAT PANEL DISPLAY

(57) Abstract:

PURPOSE: A quality adjusting method of a flat panel display is provided to improve quality of image by obtaining optimal image with adjusting the weight value according to image type, and to prevent underflow or overflow by using a mode detector and a barrel shifter.

CONSTITUTION: The brightness of input image data in a screen is compared with the reference brightness, and the difference is added as the weight value to enlarge the histogram commanding the contrast between light and shade. The screen is divided into two blocks or more. The total brightness of each block is calculated, and the relative brightness is decided against the maximum brightness of the block.

The weight value to each block is adjusted according to the relative brightness, and a signal is generated to control backlight according to the relative brightness. The quality is improved with obtaining the optimal image by changing the weight value according to image type.

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